Martin Sperber

Nationality : German

Education :

1966 - 1978 School education
?? elementary school
?? highschool with technical college qualification

1978 - 1988 Study at the technical college Aachen with diploma grade in aviation engineering

Present position: Official in charge by TÜV Rheinland in Aviation Branch

Years within the firm: 13 (TÜV Rheinland/Berlin-Brandenburg)

Key qualifications:

Knowledge of Aviation Regulation in the matter of airworthiness and operation, (National, JAA, FAA);
Knowledge and experience in the field of air accidents investigations;
Knowledge and experience in the field of passive safety in aircrafts;
Knowledge and experience in the field of crashworthiness of aircrafts;
Knowledge and experience in the field of dynamic testing of aircrafts and aircrafts components;
Knowledge and experience in the field of Biomechanic;
Knowledge and experience in the field of noise measurements of propeller driven aircrafts;
Management of complex and large projects;

Professional Experience Record:

1987 - today Responsible for the implementation of different research and development projects:

Period	Project notation	Description of performance
1987 - 1988	Technical safety and noise-reduction of hot-air-balloons	- noise measurements at different burner-systems
1987 - 1988	Glider recovery system SB 13	- Investigations on pilot loads during parachute unfold and impact on the ground
1987 - 1989	Belt restraint systems in gliders	- Analysis of glider crashes in the Federal Republic of Germany - realisation of field tests, typical for glider crashes , in order to record load values - realisation of dynamic (crash) tests with common belt restraint systems and evaluation of the test-results - realisation of dynamic tests with varied belt restraint systems and evaluation of the test-results - elaboration of advises to increase passive safety in gliders

Period	Project notation	Description of performance
1988	Investigations on the tensile strength of aged beltmaterials	- Extension tests with aged belt-materials
1990 - 1991	Restraint systems in gliders	- Investigations on a possible energy absorption by the seat-construction in modern gliders - elaboration of improvements verified by dynamic tests - work out of suggestions for advanced glider construction requirements - design of a H-point device to locate the correct anchorage points of the belt-system

1991 - 1992	Crash-Safety in aircraft cabins	- Investigation of biomechanical load maxima - construction and building of a testdevice - realisation of dynamic tests in order to investigate the consequences of seat-deformation with regard to the emergency exit
1993 - 1998	Investigation on occupant-safety at glider and motorglider accidents	- Performing of a accident analysis - arrangement and valuation of biomechanical load maxima - Performing of dynamic tests - valuation and optimisation of glider designs and elaboration of suggestions with regard to construction requirements
1994 - 1995	Requirements on sidefacing aircraft seats	- Analysis of the current aircraft requirements - investigation of biomechanical load maxima of loads acting from aside - developing concepts to support the human body from aside - elaboration of basic requirements for sidefacing seats in aircraft cabins - verification of these basic requirements by dynamic tests
1995 - 1998	Developing of education- and examination material for aircraft inspectors	- Developing a concept in order to find authors - arranging the different scripts - elaborating a list of requirements for aircraft inspectors
1996 - today	Requirements on child restraint systems in aircraft's	- Performing a literature research - installation experiments - performing dynamic tests with child restraint systems - elaboration of requirements on child restraint systems in aircraft's
1997 - 1999	Injury Criteria for enhanced passive Safety in Aircraft's	- Accident analysis - Screening of evaluation criteria - Correlation injury and evaluation criteria - Biomechanic - elaboration of evaluation criteria - Proposal for European airworthiness requirements